

# Notice of Allowability

Application No.

10/566,290

Examiner

Jennifer Doan

Applicant(s)

YOON, HYUN-JAE

Art Unit

2874

## -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to amendment filed on December 26, 2006.
2. ☒ The allowed claim(s) is/are 1-3,6,7 and 10.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☒ All b) ☐ Some\* c) ☐ None of the:
    1. ☒ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.


**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
  - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
    - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
  - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

### Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO/SB/08),  
Paper No./Mail Date \_\_\_\_\_
4. ☐ Examiner's Comment Regarding Requirement for Deposit  
of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☐ Interview Summary (PTO-413),  
Paper No./Mail Date \_\_\_\_\_
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_

  
**JENNIFER DOAN**  
**PRIMARY EXAMINER**

## **DETAILED ACTION**

### ***Response to Amendment***

1. Applicant's amendment, filed on December 26, 2006, has been fully considered and entered.

### ***Reasons for Allowance***

2. Claims 1-3, 6, 7 and 10 are allowed.
3. The following is an examiner's statement of reasons for allowance:  
  
The prior art of record fails to disclose or reasonably suggest all the limitations recited in claim 1. Specifically, the prior art of record fails to disclose a bi-directional optical module package having an optical module unit comprising a substrate member; an optical filter installed on the substrate member to be inclined with respect to an optical fiber; a first holder supported by the substrate member on one side of the optical filter; a second holder supported by the substrate member on the other side of the optical filter, wherein the first holder includes a first base portion having a laser diode, a pad and a circuit pattern installed thereon, and first extending portions which extend from both sides of the first base portion to define a fixed position of the lens, and the second holder includes a second base portion having a photodiode installed on an inner surface thereof and a wire bonding pad installed thereon, and second extending portions which extend from both sides of the second base portion to define a fixed position of the lens,

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and wherein inclined planes having the same gradient as that of an external surface of the optical filter are formed on at least one end portions of the first extending portions and at least one end portions of the second extending portions so that the optical filter is disposed between the inclined planes in combination with the other limitations of claim 1.

Claims 2 and 3 depend from claim 1.

The prior art of record also fails to disclose or reasonably suggest all the limitations recited in claim 6. Specifically, the prior art of record fails to disclose a bi-directional optical module package having an optical module unit comprising an optical module unit which has a substrate member, an optical filter, a first holder, and a second holder, the optical filter being installed on the substrate member to be inclined with respect to the optical fiber, the first holder being supported by the substrate member on one side of the optical filter; the second holder being supported by the substrate member on the other side of the optical filter; wherein the first holder includes a first base portion having a laser diode, a pad and a circuit pattern installed thereon, and first extending portions which extend from both sides of the first base portion to define a fixed position of the lens, and the second holder includes a second base portion having a photodiode installed on an inner surface thereof and a wire bonding pad installed thereon, and second extending portions which extend from both sides of the second base portion to define a fixed position of the lens, and wherein inclined planes having the same gradient as that of an external surface of the optical filter are formed on at

least one end portions of the first extending portions and at least one end portions of the second extending portions so that the optical filter is disposed between the inclined planes in combination with the other limitations of claim 6.

Claims 7 and 10 depend from claim 6.

The examiner agrees with applicants' arguments on pages 5-8 in the remarks and fully concurs that none of the references discloses or suggests a bi-directional optical module package with all limitations as defined above.

Claims 1-3, 6, 7 and 10 are therefore allowed.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

### ***Conclusion***

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jennifer Doan whose telephone number is (571) 272-2346. The examiner can normally be reached on Monday to Thursday from 6:00am to 3:30pm, second Friday off.

5. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rodney Bovernick can be reached on (571) 272-2344. The fax phone

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number for the organization where this application or proceeding is assigned is 571-273-8300.

6. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.



JENNIFER DOAN  
PRIMARY EXAMINER